GPFS

Create cluster

The following notes detail building a GPFS cluster using SSH with sudo wrappers.

1. Create local account

Create a local account that will be used/configured with sudo rules to allow GPFS cluster administration. This example will use the account name `gpfsadmin`.

There are a list of rules required for GPFS administration (listed in the IBM documentation). I've added a number of "list/query" type commands that I think are resonable to add without being prompted for the users password.

```
Defaults secure_path="/bin:/usr/lpp/mmfs/bin:/usr/lpp/mmfs/lib/gsk8/bin"
Defaults env_keep += "MMMODE environmentType GPFS_rshPath GPFS_rcpPath
mmScriptTrace GPFSCMDPORTRANGE GPFS_CIM_MSG_FORMAT"

User_Alias GPFS_USER = gpfsadmin
Cmnd_Alias GPFS_NOPASSWD_COMMANDS = /usr/lpp/mmfs/bin/mmremote,\
                                    /usr/lpp/mmfs/bin/mmsdrrestore,\
                                    /usr/lpp/mmfs/bin/mmbackupconfig,\
                                    /usr/lpp/mmfs/bin/mmgetstate,\
                                    /usr/lpp/mmfs/bin/mmdf,\
                                    /usr/lpp/mmfs/bin/mmlsattr,\
                                    /usr/lpp/mmfs/bin/mmlscallback,\
                                    /usr/lpp/mmfs/bin/mmlscluster,\
                                    /usr/lpp/mmfs/bin/mmlsconfig,\
                                    /usr/lpp/mmfs/bin/mmlsdisk,\
                                    /usr/lpp/mmfs/bin/mmlsfileset,\
                                    /usr/lpp/mmfs/bin/mmlsfs,\
                                    /usr/lpp/mmfs/bin/mmlslicense,\
                                    /usr/lpp/mmfs/bin/mmlsmgr,\
                                    /usr/lpp/mmfs/bin/mmlsmount,\
                                    /usr/lpp/mmfs/bin/mmlsnode,\
                                    /usr/lpp/mmfs/bin/mmlsnodeclass,\
                                    /usr/lpp/mmfs/bin/mmlsnsd,\
                                    /usr/lpp/mmfs/bin/mmlspolicy,\
                                    /usr/lpp/mmfs/bin/mmlspool,\
                                    /usr/lpp/mmfs/bin/mmlspv,\
                                    /usr/lpp/mmfs/bin/mmlsqos,\
                                    /usr/lpp/mmfs/bin/mmlsquota,\
                                    /usr/lpp/mmfs/bin/mmlssnapshot,\
                                    /usr/lpp/mmfs/bin/mmhealth,\
                                    /usr/lpp/mmfs/bin/mmfsadm,\
                                    /usr/lpp/mmfs/bin/gpfs.snap,\
                                    /usr/bin/scp,\
```